


# AGH

## SIMPLICITY COLLECTION

Decorative Top Sheets by KTX





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SIMPLICITY  
TECHNICAL BULLETIN



Why are all KTX Simplicity hospitality bedding products are 100% Polyester ?

KTX Simplicity is made with 100% polyester because polyesters inherent stain resistant features are superior to cotton or other fabric blends with a topical stain resistant treatment.

ADDITIONAL INFORMATION ON POLYESTERS SUPERIOR PERFORMANCE TO COTTON IN HOSPITALITY SETTINGS:

Among other properties polyester (PET–polyethylene terephthalate) is particularly known for its significant inherent stain resistance (excluding oily based substances). This fiber has excellent resistance to harsh acid base dyed and natural dyed substances, and has better than average resistance to strong oxidizers (such as chlorine bleach). The excellent stain resistant characteristics and color retention of this fiber can be explained by the fact that it requires very specialized dyes to obtain the brilliant colors it is known for. Therefore, many spills are incapable of adding to or reducing color (i.e. staining) on this fiber.

In addition, Polyester does not absorb moisture. Laundering costs including detergent, water, wash cycle time and drying cycle time etc. are reduced lowering energy and supply costs at the property level.

100% Polyester is also more flame resistant than 100% cotton fabrics.

100% polyester is hypoallergenic, there are no additional chemicals that might trigger an allergic reaction to the additive used in stain protecting cotton fibers.



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# TOP SHEETS

A cost effective and modern bedding solution

We are committed to helping you distinguish your property by staying on top of the latest industry trends, keeping your options fresh and current.

## “TECNICHROME”

Decorative Top Sheet

### Product Benefits and Features:

- Transfer Printed T200 thread count 100% Polyester Decorative Top Sheet
- Luxurious Woven Linen Texture
- Soil and Stain resistant with a snag resistant construction
- 1" double stitched omni directional hem with hidden color hem thread for sizing
- identification and center positioning color coded woven label
- Perfect weight for guest comfort 6oz.(203GSM) per square yard
- Can be used solo or in concert with KTX Shantung Bed Skirt or Box Spring Covers in complimentary fashion colors.
- Currently Available in White Ground with "Neutral Metallic" Colors
- Machine Wash & Dry, Low Temperature, Low Extraction, No Bleach, No Ironing.

### Color:

White Ground Natural Metallic

### Sizes:

Full	Queen	King
86"x 96"	98"x 96"	110"x 96"



“LOVE ME NOT”  
Decorative Top Sheet

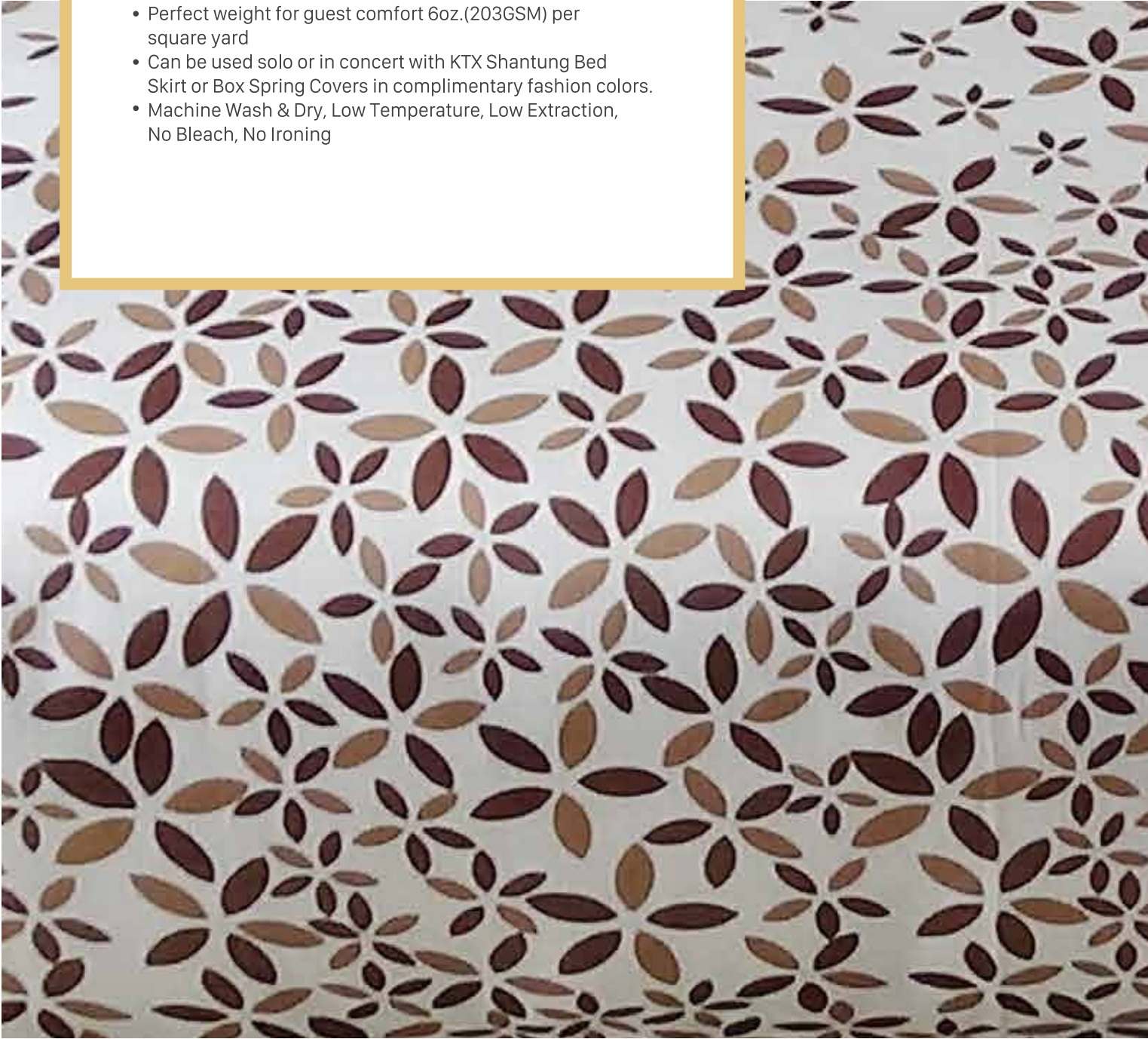
Product Benefits and Features:

- Transfer Printed T200 thread count 100% Polyester Decorative Top Sheet
- Soil and Stain resistant with a snag resistant construction
- 1" double stitched omni directional hem with hidden color hem thread for sizing identification and center positioning color coded woven label
- Perfect weight for guest comfort 6oz.(203GSM) per square yard
- Can be used solo or in concert with KTX Shantung Bed Skirt or Box Spring Covers in complimentary fashion colors.
- Machine Wash & Dry, Low Temperature, Low Extraction, No Bleach, No Ironing

Color:  
White Ground with Earthtones

Sizes:

Full	Queen	King
86"x 96"	98"x 96"	110"x 96"



“LOVE ME NOT”  
Decorative Top Sheet

Product Benefits and Features:

- Transfer Printed T200 thread count 100% Polyester Decorative Top Sheet
- Soil and Stain resistant with a snag resistant construction
- 1" double stitched omni directional hem with hidden color hem thread for sizing
- identification and center positioning color coded woven label
- Perfect weight for guest comfort 6oz.(203GSM) per square yard
- Can be used solo or in concert with KTX Shantung Bed Skirt or Box Spring Covers in complimentary fashion colors.
- Machine Wash & Dry, Low Temperature, Low Extraction, No Bleach, No Ironing.

Color: ○ Grey on Grey

Sizes:

Full	Queen	King
86"x 96"	98"x 96"	110"x 96"



# TRITON

## Top Sheet

**Product Benefits and Features:**

- Perfect weight for guest comfort and durability 6.25oz. per square yard (212GSM)
- 100% Polyester multi-ply woven fabric allows for air flow keeping guests comfortable.
- Wrinkle and snag resistant fabric construction and finish.
- 1" omni directional double stitched hems with a hidden color-coded hem thread to speed sorting in the laundry process.
- Center Location Tag – A woven color-coded label for size sewn in the center of the bottom hem to assist housekeeper in proper positioning on the bed.
- Can be used solo or in concert with KTX Simplicity Bed Scarves, Bed Skirts and Box Spring Covers in complimentary fashion colors.
- Machine Wash & Dry, Low Temperature, Low Extraction, No Bleach, No Ironing.

Color: ○ White

Sizes:

Full	Queen	King
86"x 96"	98"x 96"	110"x 96"

# ARIEL

## Top Sheet

**Product Benefits and Features:**

- Perfect weight for guest comfort and durability 6.25oz. per square yard (212GSM)
- 100% Polyester multi-ply woven fabric allows for air flow keeping guests comfortable.
- Wrinkle and snag resistant fabric construction and finish.
- 1" omni directional double stitched hems with a hidden color-coded hem thread to speed sorting in the laundry process.
- Center Location Tag – A woven color-coded label for size sewn in the center of the bottom hem to assist housekeeper in proper positioning on the bed.
- Can be used solo or in concert with KTX Simplicity Bed Scarves, Bed Skirts and Box Spring Covers in complimentary fashion colors.
- Machine Wash & Dry, Low Temperature, Low Extraction, No Bleach, No Ironing.

Color: ○ White

Sizes:

Full	Queen	King
86"x 96"	98"x 96"	110"x 96"



# CLASSIC STRIPE

## Top Sheet

**Product Benefits and Features:**

- 1" wide classic satin stripe T230 Thread Count
- 3" top hem with 1/4" hem on all sides
- 100% Polyester with a snag resistant weave and finish
- Very upscale classic design element
- Perfect weight for guest comfort 6oz.(195GSM) per square yard
- Can be used solo or in concert with KTX Simplicity Windsor Chenille Bed Scarf and/or KTX Shantung Bed Skirts in complimentary fashion colors.
- Machine Wash & Dry, Low Temperature, Low Extraction, No Bleach, No Ironing.
- Pass NFPA 701 Flame Retardancy Test

Color: ○White

**Sizes:**

Full	Queen	King
84"x 96"	94"x 96"	108"x 96"



# RIPPLE

## Top Sheet

**Product Benefits and Features:**

- Very upscale classic design element
- Wrinkle Free
- Pass NFPA 701 Flame Retardancy Test
- Multi-Ply weave fabric allows for air flow keeping guest comfortable all night
- 3" top hem with 1/4" hem on all other sides
- 100% Polyester with a snag resistant weave and finish T260 Thread Count
- Perfect weight for guest comfort and durability 6oz. (195GSM) per square yard
- Can be used solo or in concert with KTX Simplicity Windsor Chenille Bed Scarf and/or KTX Shantung Bed Skirts.
- Machine Wash & Dry, Low Temperature, Low Extraction, No Bleach, No Ironing.

Color: ○White

**Sizes:**

Full	Queen	King
84"x 96"	94"x 96"	108"x 96"



# WINDSOR CHENILLE SCARF

Complete the look of your bed with a splash of color

**Product Benefits and Features:**

- 5 in Stock Colors Berry, Bronze, Moss, Navy, Slate
- Classic hospitality design element
- 2" hem with mitred corners
- 100% Polyester Chenille
- Yarn dyed and woven with enhanced yarns for a snag and pill resistant finish
- Long lasting and durable 9.5oz per square yard (325GSM) fabric
- Coordinates with KTX Simplicity Bed Skirts and/or KTX Simplicity Top Sheets
- Machine Wash & Dry, Low Temperature, Low Extraction, No Bleach, No Ironing.

**Color:**   ● Slate   ● Moss   ● Bronze   ● Navy   ● Berry

**Sizes:**

Full	Queen	King
26"x85"	26"x94"	26"x108"





# SHANTUNG BOX SPRING COVERS

Tailored for an upholstered look

**Product Benefits and Features:**

- 4 STOCK colors to fit any room décor (L-R) Tan, Navy, Slate, and Cocoa Brown
- Passes: NFPA 701 FR Testing for vertical flame resistance
- Modern slip cover upholstery style,100% Colorfast Polyester with “raw silk” look
- Manufactured to prevent snagging and hide “wear and tear”
- Fully decked with 4” colored inlay to secure the product to bed and prevent shifting. Covers
- Box springs up to 10” high
- Perfect weight fabric for box spring cover, requires no lining
- Can be used in concert with KTX Simplicity top sheets.
- Machine Wash & Dry, Low Temperature, Low Extraction, No Bleach, No Ironing.

**Color:** ● Tan ● Navy ● Slate ● Cocoa

**Sizes:**

Full	Queen	King
54"x 80" +10.5"	60"x80"+ 10.5"	76"x80"+10.5"





# SHANTUNG BED SKIRT

Revive your guestrooms with this classic pleated Bed Skirt

**Product Benefits and Features:**

- Very upscale classic 3 pleat design 15" Drop
- 100% Colorfast Polyester with "raw silk" look
- Manufactured to prevent snagging and hide "wear and tear"
- Anchor bands to secure the product to bed and prevent shifting
- Perfect weight fabric for bed skirt, requires no lining
- Machine Wash & Dry, Low Temperature, Low Extraction,
- No Bleach, No Ironing.
- Pass NFPA 701 Flame Retardancy Test

**Color:** ● Cocoa Brown

**Sizes:**

Full	Queen	King
54"x 80" +15"	60"x 80"+ 15"	78"x 80"+15"



# SIMPLICITY TECHNICAL BULLETIN



## TRANSITIONING TO 100% POLYESTER TOP SHEETS FROM COTTON OR POLY/COTTON LAUNDRY TIPS

Although the change from cotton to poly/cotton blend fabrics produced a few challenges for industrial laundries like discovering increasing bleach was ineffective in tackling oily stain residues. The much bigger change from polycotton to 100% polyester was far more problematic. Users found that stains would come away from polyester items made by using continuous filament polyester for both warp and weft. (This is how KTX Simplicity Classic stripe is designed) but the incorporation of spun polyester yarns in one direction and filament yarns in the other direction was a bit more challenging, but detergent suppliers were able to meet requirements. (This is how KTX Simplicity Ripple is designed.)

This article examines some of the common problems with stain removal, and colour continuity (Graying) and how to tackle these.

### STAINS ACQUIRED IN THE HOTEL ROOM FALL INTO THREE MAIN GROUPS:

**Vegetable dye stains** from tea, coffee and red wine and any colouring from something that originally grew in the ground. These stains come out very easily with a low dosage of bleach, provided that they have not been locked onto the cloth by old set protein stains.

**Protein stains** from gravy, meat juices, custard, ice cream and anything from an animal (such as milk and blood-based products). These stains need to be softened for 4-5 minutes with a little detergent (to wet the fabric) in a well-designed pre-wash. The key is to keep the pre-wash temperature in the range 35-40C; 38C is ideal.

**Oily, greasy stains** from olive oil, pumpkin oil, sunflower oil, eucalyptus oil, meat juices, butter, cream and a whole host of the chef's favourite ingredients. These will come away from cotton with good detergency. They will only come away from polyester fibres with even more detergent or with the aid of the right emulsifier.

If protein stains pass through a pre-wash stage of above 40C, the temperature will cause them to set onto the fibres and they will become almost impossible to get off, even with the right temperature and mechanical action in the main wash. Some launderers will counter this by raising the alkalinity sufficiently in the main wash to chemically "burn" the protein off the fabric, but this alkalinity all has to be rinsed off the cloth or otherwise neutralised, so it is far from ideal.

There is no point in simply adding any emulsifier in order to break the very strong oleophilic bond, which holds a greasy stain onto polyester fibres. The emulsifier must have a hydrophilic-lipophilic balance (HLB value), which matches that of the greasy stain to be removed. It is unlikely that the emulsifier normally used for engineer's workwear will work, because this will have an HLB value of around 15 or more. Kitchen oils tend to have an HLB value of 11 or even lower. The best emulsifiers for Hotel Bedding will offer power over a range of HLB values.

The best way of checking the adequacy of a wash process for polycotton or 100% polyester is to check for residual oily stains either over a light table or against a bright window. Any oily, greasy residues will be show up immediately.

## AVOIDING GREYING OF WHITE LINEN

Cotton will grey if the suspending power of the pre-wash or main-wash is too low to prevent re-deposition of soiling from the wash liquor back onto the fabric. This is usually the result of insufficient detergent; occasionally it results from the use of a cheap detergent, which has too little suspending agent in the mix. Greying will also occur if the tunnel washer has to wait for a tumble dryer to become free at any point before the table linen batch is discharged. The amount of greying is directly proportional to the length of the delay. The reason it occurs (even with the best detergents) is because there is only so long that a suspending agent can wrap around removed soiling and keep this in suspension. Sooner or later the suspension will fail and greying will occur.

**The problem is even more acute with polyester fibres, which are much more difficult to recover once they have greyed in this way. The problem is made worse if the launderer relies on very high alkali or very high levels of bleaching (instead of good washing) for stain removal. This is because polyester is susceptible to both alkaline hydrolysis and acid hydrolysis, with consequent degradation of the fibre surface. This degradation gives the surface a permanently grey appearance from which it cannot be recovered.**

With Proper care and maintenance your KTX Simplicity bedding collection product should offer exceptional performance and low cost of ownership. These tweaks to the laundry chemistry are insignificant to the many other benefits of Polyester fabrics as explained in Technical bulletin on page#1.

WE  
UNDERSTAND  
YOUR  
NEEDS